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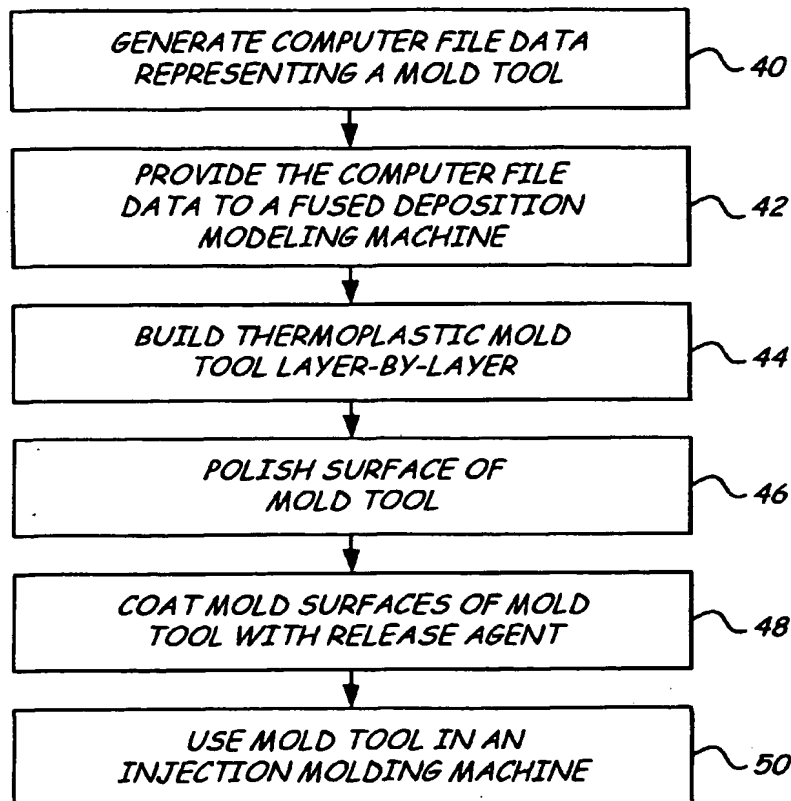
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(54) Title: LAYERED DEPOSITION BRIDGE TOOLING



(57) Abstract: Disclosed is a method for making a prototype plastic injection molded part from a mold tool (10) built by fused deposition modeling. The mold tool (10) is built by depositing roads of a molten thermoplastic resin in layers in a predetermined pattern defined by computer file data representing the inverse of the desired prototype molded part, and is used in an injection molding machine without the addition of any reinforcement fill material or layers to create the prototype part. The disclosed method provides prototype plastic injection molded parts within a twenty-four hour time period.



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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B29C 33/40, 45/00

US CL : 264/219, 317, 401

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 264/154, 162, 219, 317, 338, 401

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A ✓	US 5,189,781 A (WEISS ET AL.) 02 MARCH 1993	
Y	US 5,591,563 A (SUZUKI ET AL.) 07 JANUARY 1997, col. 13, lines 11-22	17-19
Y	US 5,952,018 A (BELDUE ET AL.) 14 SEPTEMBER 1999, the entire document	1-19
A ✓	US 6,001,298 A (McAloon) 14 DECEMBER 1999	

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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